



# — Y-12 BULLETIN

A Newspaper For Y-12 Employees of Union Carbide Corporation—Nuclear Division

Vol. 23 — No. 21

OAK RIDGE, TENNESSEE

Wednesday, June 4, 1969

## Union Carbide Supplies Liquid Oxygen And Nitrogen In Space Efforts At Cape

In providing most of the cryogenic fluid requirements for the Apollo IX shot, Union Carbide Corporation's Linde Division supplied about 500,000 gallons of liquid oxygen and 1,500,000 gallons of liquid nitrogen to Cape Kennedy.

Almost all of the product was delivered in Linde 6600-gal. trailers from Union Carbide's air separation plant in nearby Mims, across the Indian River from Cape Kennedy. The cryogenic fluids were pumped from the trailers to NASA storage and use points at a rate of 200 gallons per minute. If a transfer operation of this magnitude was scheduled on a round-the-clock basis, it would require almost 7 days of uninterrupted pumping.

As part of the countdown demonstration tests on the Apollo IX, the Linde plant at Mims, Florida, participated in a liquid oxygen storage tank replenishment test. During a 32-hour period — from 4:00 p.m., February 19 to midnight, February 20 — a total of 230,000 gallons of liquid oxygen was delivered by some 55 trailer loads from the Mims facility.

The supply program for the Apollo VIII and IX shots is one of the most extensive ever handled in the industrial gas industry. Earlier, for the historic Apollo VIII moon shot, Union Carbide supplied all of the propellant liquid oxygen requirements amounting to over 800,000 gallons, and most of the liquid nitrogen amounting to almost 2,300,000 gallons. Product was also supplied from the Mims plant, whose capacity is in excess of 400 tons per day, and is the largest air separation plant in Florida.

The first stage of Saturn V uses liquid oxygen and kerosene burned at a rate of 15 tons per

second and produces 7.5 million pounds of thrust. The second stage uses liquid hydrogen and liquid oxygen which, when burned, results in a thrust of 1,000,000 pounds.

The nitrogen was used in preparation for the launch in order to pressurize fuels for transfer, purging of the Saturn V's systems, and for blanketing critical components at launch time.

Oxygen and nitrogen liquefy at  $-297^{\circ}\text{F}$  and  $-320^{\circ}\text{F}$  respectively. Linde trailers and railcars which transport these super-cold liquids are specially designed on the "thermos" bottle idea—a container within a container with insulation in between—which keeps evaporation loss to a minimum.

Linde operates liquid oxygen and nitrogen plants throughout the country and moves product to its customers in over 500 railcars and 500 trucks and trailers. About 30,000,000 round trip miles were covered by Linde over-the-road-trailers in 1968, and over 6,000,000 round trip miles by railcars.

### Instrument Society Plans Picnic Supper

The Oak Ridge Section of the Instrument Society of America will have a combination picnic supper-business meeting this month at the Clark Center Recreation Park. It is planned for Wednesday, June 18.

The entire family is invited to come and picnic together or with other families from 6 until 7:30 p.m. Each family should bring food and drink sufficient for their family. After 7:30 a brief business meeting will be conducted.



**ASSEMBLY'S C. G. McCULLEY** escaped death barely last summer when he dozed at the wheel of his automobile. On duty with the Campbell County Rescue Squad he was returning home . . . dead tired, and ended up almost dead. His close call prompted him to plea with fellow Y-12ers to drive only when you are refreshed and rested. 'Take time out to sleep,' he begs. 'Don't aim for that extra mile like I did.'

### Japan's Kimura Guest At Physics Seminar

Professor Motoharu Kimura, Tokohu University, Sendai, Japan, will conduct this week's Physics Division seminar. His subject is "Nuclear and Neutron Physics with a 300-MeV Electron LINAC."

The seminar is set for Friday, June 6, at 3:15 p.m. in the East Auditorium of ORNL's 4500 Bldg.

## Employee Shares Accident Experience With Co-Workers

*(Editor's Note: June has been stressed as accident-prevention time away from the job. Last year, 67 Y-12ers were seriously injured off-the-job, injured badly enough to lose time from work . . . two were fatally injured in auto crashes. Since the auto is the main culprit in our away-from-work safety, the first article of a series planned for this month centers around a Y-12er who had a close call back in the summer, last year.)*

Meet C. G. McCulley, Assembly Division.

Let McCulley relate his experience in his own words:

"On July 25, 1968, I was involved in an automobile accident which was due to fatigue as a result of my loss of sleep.

"I belong to the Campbell County Rescue Squad, and the demands on us during the week of July 21 were exceptionally heavy. On the evening of July 24 we were called out to search for a little four-year-old girl, who had wandered from the campsite of an out-of-state family who were camping on Norris Lake. The child was found unharmed about 12:30 a.m. We then had to get our boats out of the water, load the trailers, and get the equipment back to the Emergency Squad Building in La-Follette.

"It was almost 2 a.m. when I started home from the Emergency Squad Building. Needless to say, I was almost completely exhausted. Only three days before we had been up most of two nights assisting in the search for the bodies of two men who had drowned while on a fishing trip on Norris Lake. I knew that I was extremely drowsy; however, I was sure that I could combat it

successfully for the few miles that I had to drive to get home.

"I am not sure where I went to sleep or how long I was asleep, but I woke up with a start as I was passing by my own driveway. I regained my presence of mind quickly, however, because I remember deciding that I would go on down the road, turn around, and come back. However, in the next moment I realized that I had lost control of the car.

"It swerved to the left, went into the ditchline, and after going only a short distance struck a large culvert abutment and came to an abrupt stop. I was not using my seat belt. With the abrupt stop my head shattered the windshield, and my body struck both the steering wheel and the dashboard with a great deal of force. I sustained extensive cuts on my face; and my upper lip, just under my nose, was cut all the way through.

"I got out of the car and walked a short distance to one of my neighbor's house to ask him to call an ambulance for me. I knew I had extensive injuries. During this short walk I was bleeding so

Continued on Page 4



**P. R. VANSTRUM**, Technical Director of the Nuclear Division, presents congratulations to **C. B. Montgomery** and **John M. Googin**, as they are informed a patent application has been made on their development "Braze Beryllium to Beryllium." The congratulatory letter, signed by Dr. C. E. Larson, is accompanied by the customary one dollar.

### SAFETY SCOREBOARD

The Y-12 Plant Has  
Operated  
191 Days Or  
6,059,000 Man-Hours  
(Unofficial Estimate)  
Through June 1  
Without A Disabling Injury  
SAFETY AT HOME,  
AT WORK, AT PLAY



# The Bulletin

Published Weekly For The  
Y-12 Employees Of  
UNION CARBIDE  
CORPORATION



NUCLEAR DIVISION

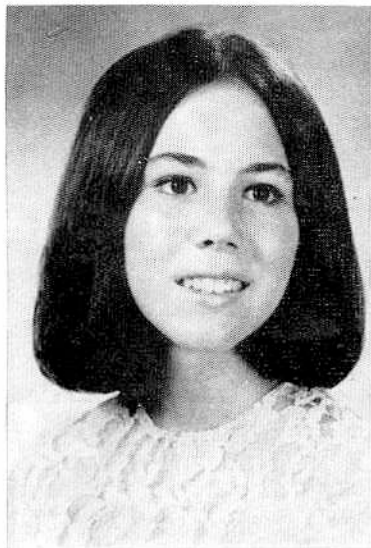
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## Karen Brewster Is Worthy Adviser



Karen Brewster

The Order of Rainbow for Girls, Oak Ridge Assembly No. 32, has announced the installation of officers Saturday, May 24. The new Worthy Advisor will be Karen Brewster, daughter of Carl, in Y-12's Medical Department. . . . The Brewsters live at 236 North Tulane Avenue, Oak Ridge.

Karen is a senior at Oak Ridge High School.

Elected officers for the next term are Betty Clark, Worthy Associate Advisor; Lisa Christie, Charity; Phyllis Stewart, Hope; and Debbie Foley, Faith.

The appointed officers are: Marti Smith, Chaplain; Mary Martha Stansberry, Recorder; Linda Pappas, Treasurer; Jackie Stewart, Drill Leader; Sharon Crane, Love; Lola Rose Parris, Religion; Connie Green, Nature; Carole Franke, Immortality; Debbie Young, Fidelity; Cathy Brockwell, Patriotism; Donna Penland, Service; Janet Carroll, Confidential Observer; Mary Jo Johnson, Outer Observer; Pam Jones, Musician; and Zelda Lauder, Choir Director. The mother advisor will be Mrs. Mary Ellen Brock.

Members and families of the Eastern Star, Rainbow for Girls, Demolay and other Masonic bodies attended the installations.

## Folk Dancers Invite Newcomers On Tuesday

The Oak Ridge Folk Dancers invite participation by interested parties, every Tuesday, 8 p.m., in the Coral Room of the Ridge Recreation Building.

There is an admission of 50 cents per person . . . and leaders are Charles Klabunde, John Young and Mary Smith, as well as others.

Anyone interested in international folk dancing is cordially invited to join the group.

## Child-Danger Photograph Key

A guide to the photographs next door shows:

1. **PLAY AREAS**—Provide your youngsters—like those in the picture—with safe and properly supervised play areas. Warn them to stay away from excavations, construction sites, industrial property. Small children do not realize the potential hazards of broken glass, rusty tin cans and the like, so periodically rake your yard free of debris.

2. **SWIMMING**—National Safety Council statistics show that drownings are the fourth greatest cause of accidental deaths. Children under 15 years of age are the victims in a third of these drownings. Encourage your children to learn to swim. Schools, YMCAs and the Red Cross, as well as other organizations provide properly supervised instruction. Caution your child to swim with a buddy—and only in supervised areas.

3. **EXOTIC PETS**—There is a growing trend of people to raise wild animals in their homes. The National Safety Council cautions parents that the best place for children to enjoy exotic animals is the nearest zoo—where they don't risk the danger of being bitten or infected by them. Besides, zoos provide youngsters with a much wider variety of exotic animals than any parent would ever dream of raising for his or her home.

4. **BIKES**—The vast majority of bike-car collisions are triggered by a heedless youngster rather than the driver. Whether or not your children—like those in the photo—have access to special bike paths, teach them the rules of safe bike riding: ride on the right side of the street, single file; obey traffic signs; give proper arm signals when turning and stopping; never ride two on a bike, and avoid horseplay.

5. **ASPIRIN**—Almost every day—summer and winter—a child under five years of age dies from accidental poisonings. One of the major causes is aspirin. Taken in large doses, it can be fatal. Keep aspirin out of the reach of children.

6. **GUNS**—In 1966 nearly 400 children 14 years of age or younger died from home gun accidents. The National Safety Council advises parents to keep guns unloaded, locked up and out of sight and reach of exploring youngsters.

(All photos: Courtesy of National Safety Council.)



Ride wanted from 127 Sanford Lane, Oak Ridge, to North Portal, straight day. C. E. Green, plant phone 3-5762, home phone Oak Ridge 483-4586.

### DAFFYNITIONS

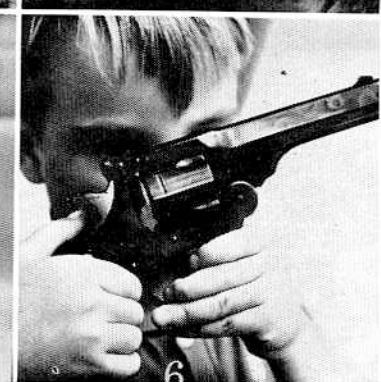
**MONEY**: Something that things run into and people run out of.

**AUTOMATION**: Man's effort to make work so easy that women can do it all.

**FLATTERY**: Telling the other fellow what he already thinks of himself.

**HANGOVER**: Something that happens to a head that was not used the previous night.

**FRIENDS**: Two women mad at the same person.



**A SAFE HOME IS A CHILD-PROOFED** home states the National Safety Council. Above are seen some of the activities of the 'little angels' around home. Is your home safe for your off-spring?

## Is Your Home Child-Proofed For Protection Of Off-Springs?

(Editor's Note: While we publicize the fact that 67 Y-12ers sustained lost-time injuries off-the-job last year, we have no way of knowing how many members of Y-12ers' families suffered similar mishaps. Is your home child-proofed? You might be interested in the Safety Council's story below.)

The National Safety Council reminds parents—in words and pictures—that summer is the time of the year when children between the ages of five and 14 are most prone to accidents.

Too busy having fun, these perpetual balls of energy wrapped in tee shirts, blue jeans, tennis shoes and catcher's mitts never worry about where they play. The more dangerous the place, the more exciting it seems.

They love to explore. They do wild things and dare each other to take crazy risks. Even knowing better, they ignore danger signs.

The Council advises parents to know where their children play. "Don't let alleys be the only places your children can play," says Phil Dykstra, manager of the Council's Home Department.

"Encourage them to use supervised play areas—parks and school playgrounds, community centers and play streets," Dykstra adds. "Find out what free recreation facilities are available. Sports provide plenty of excitement and activity."

If there are no such facilities near your home, the safety expert advises that you work with your neighbors to convert a vacant lot into a play area or an unrented building into a community center.

Dykstra warns parents that children will wander off unless you offer them something as interesting and exciting as their own jaunts.

"You will be amazed how much help you can get from your city councilmen, churches, civic and youth organizations, PTAs and other groups and the children themselves," he says.

"Above all else," the safety ex-

pert advises, "keep youngsters away from excavation and construction sites, abandoned buildings, unprotected rooftops and railroad tracks and property."

He adds that the natural childhood urge to climb can be fatal near high tension wires, on spiked fences and among rotted wooden beams and rafters.

In the accompanying photographs, the Council offers some specific advice on how to keep your children out of mischief this summer.

## 'Rushin' Roulette' Odds Are Itemized

Are you an oddsmaker? Wanta bet a little? Do you play Russian roulette regularly?

What about "Rushing Roulette?" How often do you play it? The National Safety Council has come up with an interesting 'odds table' that may make you think a little. Take a look at the "survival table" that shows your chances of coming out of an accident alive at varying speeds:

Speed	Survival Odds
0-10 mph	1,373 to 1
11-20 mph	963 to 1
21-30 mph	316 to 1
31-40 mph	97 to 1
41-50 mph	88 to 1
51-60 mph	31 to 1
61-70 mph	7 to 1
71-and over	1 to 1

Authorities agree that 40.8 per cent of all deaths in auto accidents last year were results of speed too fast for conditions.

Are you playing "Rushing Roulette" on the highways?

### WHO'S ON FIRST?

A teacher once asked her class to name the nine greatest Americans. On stopping by a youngster's desk, she asked, "Haven't you finished yet, Bobby?"

"No ma'am," he answered, "I can't decide on a shortstop."

## 'Barefoot' Comedy Opens Here Friday

Nancy and Bob Menchhofer (Bob is the son of H. L. Menchhofer, Alpha Five) play the charming newlyweds in the Oak Ridge Playhouse's final production of the season, "Barefoot in the Park." This beguiling comedy by Neil Simon opens Friday, June 6, and will continue June 7, 13, 14 and 15 at 8:20 p.m. Tickets are available at the Playhouse in Jackson Square between 10 a.m. and 5:30 p.m. Telephone reservations may be made through 483-1224.

Milt Carey will also be seen as a gentleman charmer who lives in the attic apartment over the young couple. Their lives become entangled when he proceeds to use their skylight as an entrance to his own abode and later becomes the escort of the young bride's mother, a matron of impeccable propriety.

Critics claimed "Barefoot" was a "Hurricane of hilarity," "a rib-busting delight," and a "grand new riot of laughter." Simon has the ability to take ordinary, nice people, put them in the funniest imaginable situations, and create dialogue which is clean, witty, and consistently comic. "Barefoot" ran for a total of 1,532 performances on Broadway.

Season membership for next year will be available at the Box Office throughout the run of "Barefoot." The Playhouse has expanded next year's schedule to three weekends and anticipates the largest membership in its history. Early ticket reservations are recommended in order that desired seating locations may be obtained. Box office personnel, or Mrs. J. B. Ball, telephone 483-3372, can give further information on season tickets.

### STAY-AT-HOMES

The single man runs all around the country getting into trouble. The married man gets into the same trouble just by staying at home!



## Two Teams Lead Melton Hill Links

Clabough-Tiller took five points from Nixdorf-Holdaway in last week's Melton Hill Golf League; as Stewart-Butler won four from the Morehead-Poly pair. Both teams share the title lead in the 18-team race.

Posting six were Alvey-Phillips over Parker-Parrott; and Brown-Bell over Ellis-Ridings. Other four-point wins went to Sherrod-Wyrick over Babb-Baker; Stinnett-Ladd over the two Sewells; and Wright-Dunaway past Gordon-Loupe.

Sharing three were the Riggs-McElroy, Wetzel-Tuck pairs; as the Ferguson-Winstead team took five from Carter-Butler.

Dale Phillips scored along with John Baker, each with 38 . . . while handicap honors went to John and Dick Wyrick, each with 33.

League standings follow:

Team	W	L
Clabough-Tiller	10	2
Stewart-Butler	10	2
Riggs-McElroy	9	3
Sherrod-Wyrick	9	3
Brown-Bell	8	4
Baker-Babb	7	5
Poly-Morehead	7	5
Tuck-Wetzel	7	5
Ferguson-Winstead	6	6
Parker-Parrott	6	6
Gordon-Loupe	6	6
Stinnett-Ladd	6	6
Alvey-Phillips	6	6
Wright-Dunaway	5	7
Sewell-Sewell	3	9
Carter-Butler	1	11
Holdaway-Nixdorf	1	11
Ellis-Ridings	1	11

## Green Poison Lurks About Us!

With the green foliage around abounding in these parts, there's a curious little three-leaved plant you'd better avoid.

That old devil poison ivy. . .

Medical authorities estimate that about two people out of every three develop a dermatitis if they come in contact with the poison ivy. The contact may be with the leaf, stem, or root of the plant, or even by touching an animal which has contacted the plant. The eruption may develop in a few hours after exposure or may be delayed seven to eight days. Once the condition has developed, fluid from the blisters does not spread the condition or cause anyone else to get it, contrary to popular belief.

The best prevention is avoidance of contact with the plant, although the eruption will not develop if the skin is washed with soap and water within one to two hours after exposure. Clothing which has touched the ivy plant should be cleaned or washed, or at least not worn for several days.

Treatment consists of ice cold compresses of aluminum subacetate followed by the application of calamine lotion. Ointments or greasy preparations are generally not advised. In more severe cases, the new cortisone derivatives are very effective, but should be prescribed by your doctor.

The shots sometimes prescribed as a preventive measure are effective on some people, but not all. They are never given after the condition develops.

Another myth exploded: NEVER CHEW THE LEAVES IN ORDER TO DEVELOP RESISTANCE—A SEVERE POISONING MAY RESULT!

Points to remember:

- Learn to identify the poison ivy plant.
- Avoid contact with any part of it.
- Wash with soap and water as soon as possible if unavoidable contact occurs.

## Recreation



Saturday, June 7

**WEINER ROAST**—Game Time, sponsored by E, F, G, H and J Shifts. All Y-12 employees and families welcome. Begins at 2 p.m. Clark Center Recreation Park.

Sunday, June 8

**SKEET TOURNAMENT:** 1 p.m. Oak Ridge Sportsmen's Association range.

Monday, June 9

**SOFTBALL LEAGUE:** 6:15, 7:30, 8:45 p.m. Pinewood Park. Yankees vs. Braves; Y-12 Snakes vs. All Stars; Eagles vs. Go Go Gophers.

**PHYSICAL FITNESS:** (For Women): 7:30 p.m. Oak Ridge High School Girls' Gym.

Tuesday, June 10

**SOFTBALL LEAGUE:** 6:15, 7:30, 8:45 p.m. Pinewood Park. Big Shops vs. J-Birds; Buccaneers vs. Beta 2 Miners; K-25 Gashouse Gang vs. Beta 4 Astros.

**PHYSICAL FITNESS:** (For Men): 7:30 p.m. Oak Ridge High School Gym.

**WHITTLES GOLF COURSE:** After work, Whittle Springs Golf Course, Knoxville.

Wednesday, June 11

**MELTON HILL GOLF LEAGUE:** After work, Melton Hill Golf Club, Clinton.

Thursday, June 12

**SOUTHWEST POINT GOLF LEAGUE:** After Work, Southwest Point Golf Course, Kingston.

**SOFTBALL LEAGUE:** 6:15, 7:30, 8:45 p.m. Pinewood Park. 69ers vs. NC Squad; A-Wingers vs. Bat Boys; Show Ups vs. Colts.

**HORSESHOE LEAGUE:** 7 p.m. City Courts, Jackson Square, Oak Ridge.

Saturday, June 14

**HI POWER RIFLE LEAGUE:** 9 a.m. Oak Ridge Sportsmen's Association.

## Weiner Roast Set By Shifters Saturday

A Weiner Roast and a session of that game people play is set by E, F, G, H and J Shifts Saturday, June 7 at the Clark Center Recreation Park. Eating of the hot dogs is set for 2 p.m. . . and 20 games (10 each for kids and adults) are set beginning at 4 p.m.

All Union Carbide employees in Y-12 and their families are welcome . . . Y-12ers bring blue badges; ORNL employees in Y-12 may pick up tickets at the PSS Office, 9706-2.

## NO DOUBT ABOUT IT

A professor, instructing a student on his poor spelling, stated, "You should consult a dictionary whenever you're in doubt."

The student replied, "Yes, sir, but I'm never in doubt."



"I'm not really late. I just took my coffee break before I came in."



**THE NC SQUAD IS A TEAM** in Softball action this year (N.C. stands for Numerical Control, we're told . . . and of course, Squad stands for Squad!). In the front row, from left, are Steve Porter Jr., Ron Miskell, Manager Tom Bookhart, Jim Smith, Ken Brady, C. F. Lyon and Ron Marcum. In the rear are John Smith III, John Younkin, Charley Beasley, Bob Rose, Assistant Manager J. D. Allstun, Lee Wickham and David Post.

## Mee Is Low Again - SW Point

Thanks to strong six-point wins last week, two teams move out in front of the Southwest Point greens for that golf league. Morgan-Jones and Smith-Henderson grab an early first-notch slot . . . after wins last week from Groppe-Argo and Clayton-Verner respectively.

Sharing three were the Mee-Wright, Goss-Stanton pairs.

Bill Mee fired a 39 low . . . and W. B. Goss scored a 38 handicap low.

League standings follow:

Team	W	L
Morgan-Jones	10	2
Smith-Henderson	10	2
Goss-Stanton	7	5
Mee-Wright	7	5
Clayton-Verner	2	10
Groppe-Argo	2	10

## Blackshear Open Set In Ridge Soon

Y-12 tennis players, both men and women, may be interested in participating in the Blackshear Open Tennis Tournament. It will be staged in Oak Ridge from June 21 through 29, and is sponsored by the Oak Ridge Tennis Club and the Oak Ridge City Recreation Department.

There will be seven divisions of play . . . men's singles and doubles; senior men's (over 45); women's singles and doubles; and mixed doubles.

The fee is \$1 per event, and application must be made by Friday, June 13. Information on the tournament may be had from John Murphy, Building 9207, extension 3-7656.

The O.R. Tennis Club also welcomes tennis players to the second half of league play, beginning July 7. Entry must be made by Wednesday, June 18, and application is made through Hunter Foreman, K-1007, K-25, at extension 3-3381.

## LIGHTER LOAD

"Do not forget the fable of what happened when the Lord, moved by ceaseless complaining, summoned all the people and told them to throw their troubles on one heap. Each one was told to pick out the lightest he could find. And, to the very last man, every one selected his own!" B. C. Forbes.

## Y-12 Snakes, All Stars And Braves Keep Perfect Softball Record Still

Only three teams kept peerless records after Softball action cleared away last week (double-timing on Monday, Tuesday, Wednesday . . . due to last Friday's holiday).

The Snakes, All Stars and Braves boast a four-win, no-loss record thus far . . . as three teams fell from the top of the heap.

Jim Milligan, Rick Hull and Jack Cowan all poled long homers to help the Braves win the big test Monday 13 to 6. Cowan added a triple to his credit, too. The Braves put the Go Go Gophers down.

The second game was a squeaker . . . the Show-Ups barely making it by the Bat Boys 16 to 15. Hits were about the same story . . . 21 to the SU's; 20 for the BB's. Ed Stair homered for the losing Boys, for the only four-bagger of the game.

## All Stars Win Big

The All Stars out-distanced the N.C. Squad in final play Monday, 21 to 6. Dale Legg lopped a four-bagger for the winning team.

The K-25 Colts downed Y-12's 69ers in the early game Tuesday . . . 12 to 6. Harold Conner and Jim Treadwell did well for the Colts' cause, pelting out balls over the fence.

The A-Wingers won a forfeit game from the Beta 4 Astros.

The J-Birds jarred the A-Wingers in final play Tuesday 31 to 12 . . . as Ron Gibson and Bill Wise earned long trips to homeplate.

Bill Grubb grabbed a four-bagger for the losing Wingers.

Wednesday's play saw the Y-12 Snakes barely keep their perfect record . . . downing the Eagles 11 to 10.

Inning number four proved the big one for the Snakes, as they earned five runs in that period. Horace Moorman made it home with one smack . . . Dave Mason homered for the losing cause.

## Big Shop Falls

The K-25 Gashouse Gang took the Big Shops 23 to 4 (just call us the Little Shops now), as Charles Hensley homered to push the winning cause.

The Buccaneers beat out the Yankees 13 to 12, in another close one as the week's action came to a sliding halt.

Don Niekirk belted out two homers . . . Randy Collins one, both for the winning Buc's.

League standings follow:

Team	W	L
Y-12 Snakes	4	0
All Stars	4	0
Braves	4	0
Eagles	3	1
Yankees	3	1
69ers	3	1
K-25 Gashouse Gang	3	1
K-25 Colts	3	1
Buccaneers	2	2
J-Birds, K-25	2	2
Go Go Gophers	2	2
Big Shops	1	3
Show Ups	1	3
A-Wingers	1	4
Beta 2 Miners	0	3
N.C. Squad	0	4
Bat Boys	0	4
Beta 4 Astros	0	4

## Hensley-Tharp Eke Out Whittle Lead

The Hensley-Tharp duo pulled into first place in the Whittle Springs Golf League last week, after a five-point win over Troutman-Chitwood.

Cowan-O'Neal drew a bye for the week, and Norris-Smeltzer downed True-Poe for four big points.

A match pends awaiting a ruling.

M. J. Tharp capped both scratch and handicap lows . . . firing a 39 and a 31 respectively.

League standings follow:

Team	W	L
Hensley-Tharp	9	2
Ball-Leach	6	0
Cowan-O'Neal	6	0
Norris-Smeltzer	4	2
True-Poe	4	2
Troutman-Chitwood	1	11
Holland-Wilson	0	6

## Please . . . Mister No Boa Constrictors

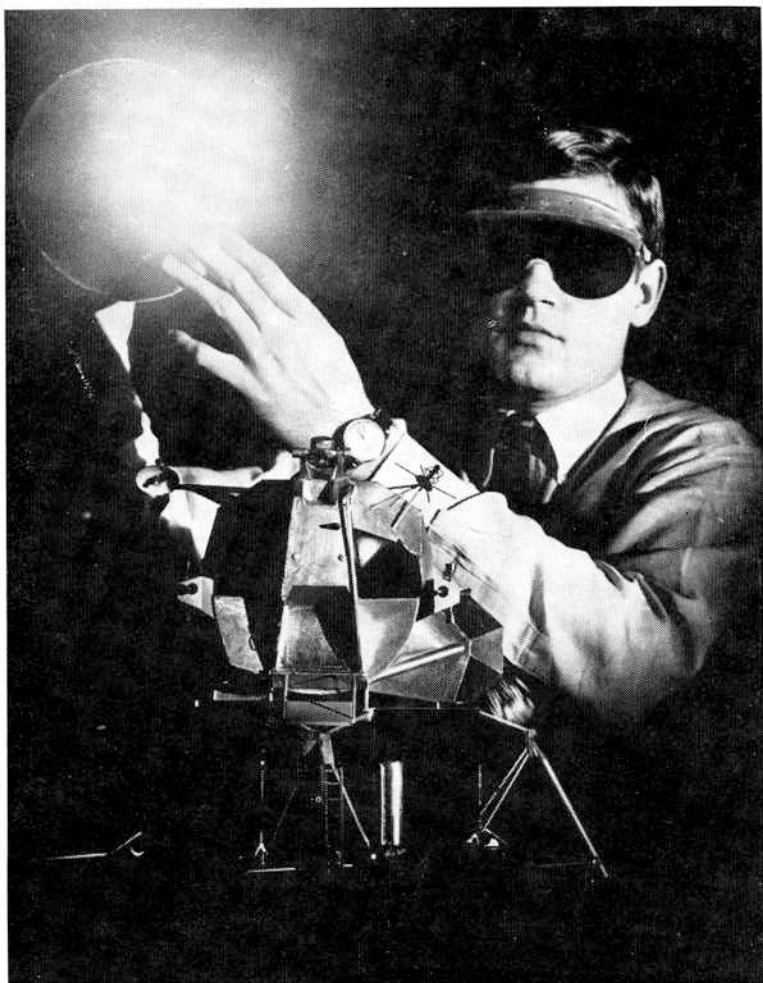
Growing ostriches for a hobby? (Please, no boa constrictors!) . . . are your rare orchids about to bloom?

Do you breed rare Chinese temple dogs? Is your wife a trapeze artist?

The Bulletin is always interested in interesting hobbies. Just give us the name and we'll root out the facts. We might even be coaxed into taking some pictures here and there.

The Bulletin is your newspaper. Call us at extension 3-7100 and give us an interesting story.





**SPACE GLOW IS SEEN IN THIS** experiment to test man's physical limitations and reactions to the stresses and hazards of space environments. It will be seen in 'Surviving in Space' on 'The 21st Century' Sunday, June 8, at 6 p.m., EDT, in color on the CBS Television Network, and carried here by WBIR-TV, Channel 10. Seen above, the intense glare and black shadows astronauts can encounter during docking maneuvers in space are demonstrated by a Lockheed research engineer. A model of the Lunar Module indicates the sunlight reflecting properties of the actual spacecraft. CBS News Correspondent Walter Cronkite is principal reporter for the series which is sponsored in the public interest by Union Carbide Corporation.

## Space Survival Is Topic Sunday For Top-Rated '21st Century'

To conquer space, man must first learn to conquer his own body, a body molded by millions of years on earth.

The science of bioastronautics—the study of man's physical limitations and reactions to the stresses and hazards of space environments—will be explored in "The 21st Century" episod, "Surviving in Space" Sunday, June 8, at 6 p.m., EDT, in color on the CBS Television Network. The program is carried here by WBIR-TV, Channel 10.

CBS News Correspondent Walter Cronkite, principal reporter for the series which is sponsored in the public interest by Union

Carbide Corporation, points out that space medicine, unlike earth medicine, must anticipate hazards that are different from any the human body has been exposed to before.

"The 21st Century" broadcast will report experiments being conducted in special research laboratories across the country to prepare astronauts for high and low gravity conditions, unfiltered sunlight, extremes in temperatures, sound pressure and vibrations which can affect the working of man's delicate body machinery, and disorientation.

Through it all so far, Cronkite reports, "Man is proving to be far tougher than we ever realized."

"Surviving in Space" was written by Fred Warshofsky, science editor for "The 21st Century." Isaac Kleinerman is producer and Burton Benjamin is executive producer.

"Surviving in Space" Sunday, 6 p.m., June 8, over WBIR-TV, Channel 10.

### DAFFYNITIONS

**MIDDLE AGE:** The time of life when a man feels he gets less for his money each time he goes to the barber.

**CREDIT CARD:** A convenient way to spend money you wish you had.

### THEY SAID NO

Three retiring presidents—John Adams, his son John Quincy Adams, and Andrew Johnson—refused to attend the inauguration of their successors.



Weddings, graduations, and other gala occasions crowd the calendar for June . . . making way also for more Y-12ers seeing important dates with Union Carbide Corporation. Congratulations.

### 25 YEARS

**Anna P. Smith**, Production Analysis, June 6.

### 20 YEARS

**Guy H. Smith**, Metallurgical Development, June 5.

### 15 YEARS

**Joseph T. Thomas**, Criticality Studies, June 4.

**Earl T. Stair**, Alpha Five East Shop, June 7.

**Haggard D. Keyton**, Dispatching Department, June 7.

**Bobby L. Bagwell**, Product Engineering, June 8.

**George R. Goins**, Beta Two Shop, June 10.

**Leroy J. Eggert**, Physical Testing, June 10.

**Constant C. Wilson**, Stores Department, June 10.

### 10 YEARS

**James R. George Jr.**, Dispatching Department, June 8.

**Clarence E. Conyer**, Tool Grinding, June 8.

**Harold E. Wright**, Dimensional Inspection, June 8.

**Henry D. Williams**, Tool Grinding, June 9.

**Kenneth O. Goodykoontz**, Beta Four Heavy Machine Shop, June 10.

## Seat Belts Can Save Lives, Says Council

The National Safety Council estimates that at least 10,000 lives could possibly be saved each year if all motorists used their seat belts.

How can a safety belt save your life? The main advantage to wearing a seat belt is that it can help prevent the "second collision" when car occupants are thrown around inside the vehicle during an accident.

If more people would stop making excuses for not wearing safety belts, there would be more people.



## UNION CARBIDE CORPORATION

NUCLEAR DIVISION

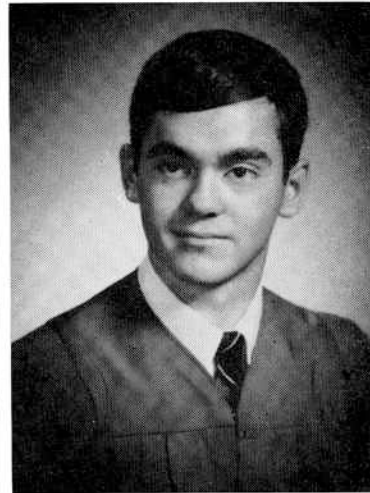
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## Daltons Graduate 2 Sons From Norris One A Foster Son From The Philippines



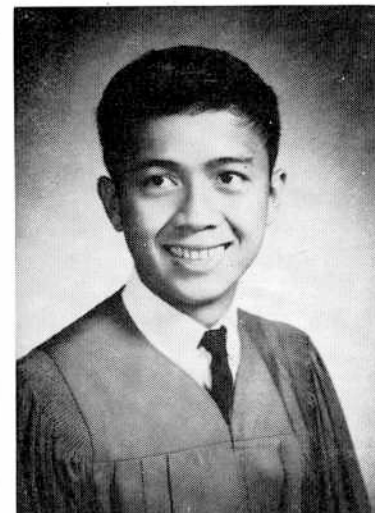
Sammy Dalton

The Clyde Dalton home, 21 Laurel Place, Norris, will celebrate a double graduation from Norris High School this year.

Celerino (No-Noy) Magbuhos of Lucena City, Philippines, arrived in the States last August as an American Field Service student in the Dalton home. He will graduate with straight A's from Norris, along with the Daltons' blood son Sammy.

The American Field Service was organized shortly after the first World War by ambulance drivers who drove in France during hostilities. Now about 3,000 students from other countries come to the United States each year to live with an American family.

Celerino . . . who has been called No-Noy ever since his arrival . . . is the son of Mr. and Mrs. Pedro Magbuho, Lucena City



Celerino Magbuhos

. . . and one of seven children. He has three brothers and three sisters back home. He has a good command of the English language, and has been called on by several organizations to speak, including the Optimists here in Oak Ridge.

His American brother, Sammy also graduates, ending an active career at Norris. He is president of the Student Council, past president of the Anderson County Student Councils, was a representative at the Tennessee Association of Student Councils, and is listed in the "69 Outstanding Teenagers of America."

Other members of the Dalton family include brother Ray, a student at Carson Newman College, and sisters Pamela and Susan.

Sammy plans to attend Georgia Tech this Fall, and hopes to co-op part of his way through.

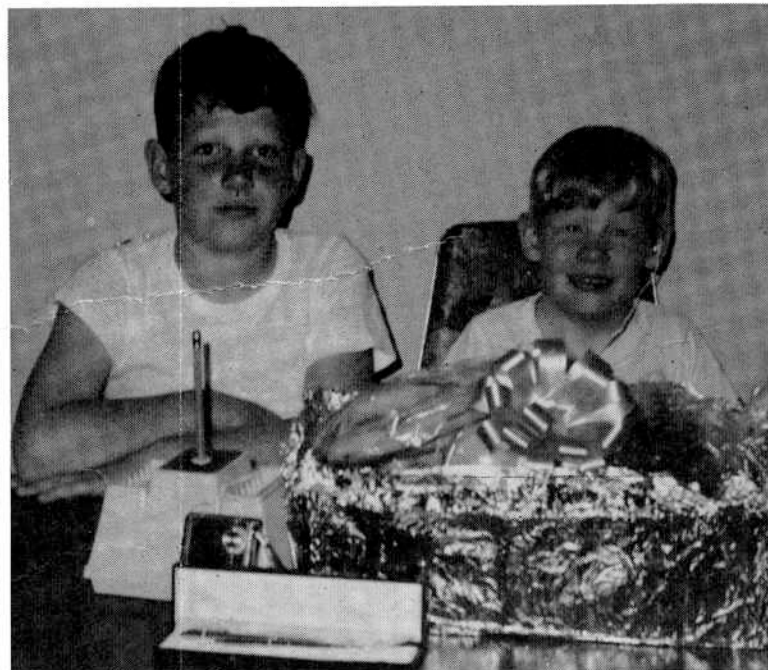
The Dalton father is in Y-12's Electrical and Electronics Department.

## Accident . . .

Continued from Page 1  
profusely about the face that the blood was running down my body and into my shoes to the extent that they were full of blood when I got to my neighbor's house.

"My neighbor called for ambulance service, and an ambulance arrived very soon thereafter and took me to the hospital. I was in the hospital for 10 days and was off from work for 32 days. Damage to my new 1968 model car exceeded \$1,350, and this did not include the inconvenience and aggravation I encountered in getting the repair work done to my satisfaction. I have shared this unpleasant experience with fellow workers with only one objective in mind. I want you to recognize the hazards of fatigue and exhaustion before you have an accident comparable to, or even worse, than mine."

(Editor's PS: Our thanks to C. G. McCulley for recalling these painful facts. If his retelling of the accident can prevent even one Y-12er from driving an automobile when he is too exhausted or sleepy, then it will have served its useful purpose.)



**DAVID AND MORGAN SISSOM**, left to right, are seen above with loot Morgan won recently in the Atomic Museum Appreciation Week festivities. His name was drawn on a Saturday for an electric pencil sharpener, and again the next day for a transistor radio and fruit basket. The Oak Ridge Atomic Energy Museum, operated by Oak Ridge Associated Universities, recently entertained its 2 millionth visitor. The Sissom boys are the sons of D. T. Sissom, Y-12's Product Engineering.



**MELISSA** Jean Stooksbury joined the Barbara and Gary Stooksbury family April 28 at St. Mary's Hospital, Knoxville. Little Missie is the granddaughter of J. V. McCoy, Beta Four Forming.